

## Practice Worksheet for Lesson 11-7

Name:

Mailbox #:

The table refers to similar figures. Complete the table.

	# 1	# 2	# 3	# 4	# 5	# 6
Scale Factor	1: 4	3: 2				
Ratio of Perimeters			9: 5	3: 13		
Ratio of Areas					25: 1	9: 64

7) The areas of two circles are  $36\pi$  and  $64\pi$ . What is the ratio of the diameters?

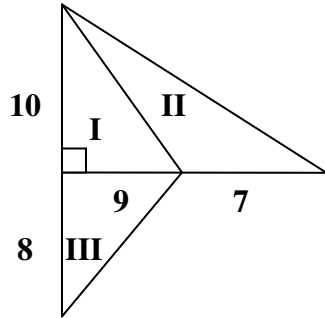
of the circumferences?

8) A quadrilateral with sides 8cm, 9cm, 6cm, and 5cm has area  $45\text{cm}^2$ . Find the area of a similar quadrilateral whose longest side is 15cm.

9) A pentagon with sides 3 m, 4 m, 5 m, 6 m, and 7 m has area  $48\text{ m}^2$ . Find the perimeter of a similar pentagon whose area is  $27\text{ m}^2$ .

Find the ratios of the areas of triangles I & II and I & III.

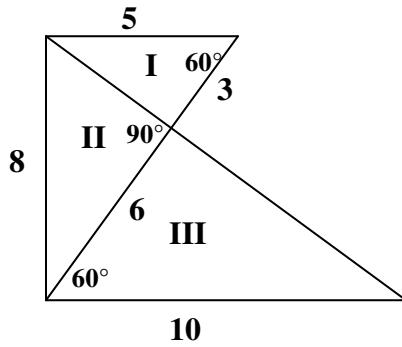
10)



Triangles I & II:

Triangles I & III:

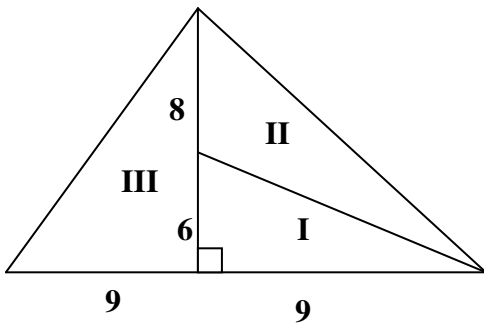
11)



Triangles I & II:

Triangles I & III:

12)



Triangles I & II:

Triangles I & III: